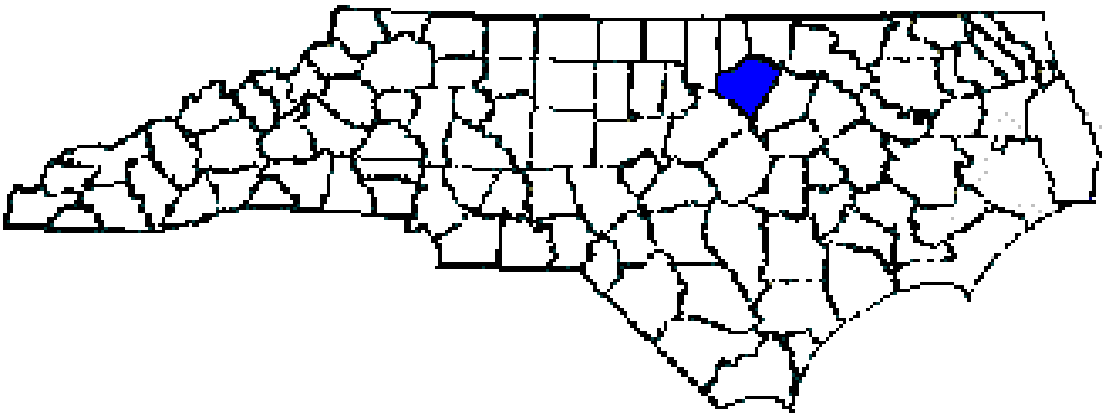
ANNUAL REPORT FOR 2011



UT to Sycamore Creek Mitigation Site
Franklin County
TIP No. B-4115

Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
June 2011

TABLE OF CONTENTS

FIGURES

APPENDICES

SUMMARY

The UT to Sycamore Creek Mitigation Site is located in Franklin County. The site was planted in March 2009 and was designed as Stream Enhancement for impacts associated with bridge project B-4115.

The mitigation encompasses approximately 465 linear feet of Stream Enhancement. The enhancement effort involved fencing out livestock and replanting a 50 ft. wide wooded buffer along the northern side of the tributary that leads to Sycamore Creek. Given the amount of existing bedrock and removal of livestock access, the stream should stabilize without additional grade control. The area that was enhanced is being monitored by visual observation for stability and photo points for the survival and density of vegetation. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the third year of monitoring, the UT to Sycamore Creek Site shows by visual observation the planted vegetation is surviving and the tributary is stable. NCDOT proposes to discontinue monitoring at this site.

1.0 INTRODUCTION

1.1 Project Description

The UT to Sycamore Creek Mitigation Site is located at Bridge No. 57 over Sycamore Creek on SR 1419 (Ronald Tharrington Road) (Figure 1). The site consists of approximately 465 linear feet of stream enhancement mitigation for stream impacts associated with project B-4115.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet the success criteria. This report details the monitoring in 2011 at the UT to Sycamore Creek Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

March 2009	Site planted
August 2009	Vegetation Monitoring (1 year)
July 2010	Vegetation Monitoring (2 year)
June 2011	Vegetation Monitoring (3 year)

1.4 Debit Ledger

The entire UT Sycamore Creek stream mitigation site was used for the B-4115 project to compensate for unavoidable stream impacts.

2.0 VEGETATION: UT TO SYCAMORE CREEK MITIGATION SITE (YEAR 3 MONITORING)

2.1 Success Criteria

NCDOT shall monitor the site by visual observation for stability and photo points for the survival and the density of the vegetation. NCDOT will monitor the site for a minimum of three years or until the site is a success.

2.2 Description of Species

The following tree species were planted in the Stream Enhancement Area:

Platanus occidentalis, American Sycamore

Quercus michauxii, Swamp Chestnut Oak

Quercus phellos, Willow Oak

2.3 Results of Vegetation and Stream Stability Monitoring

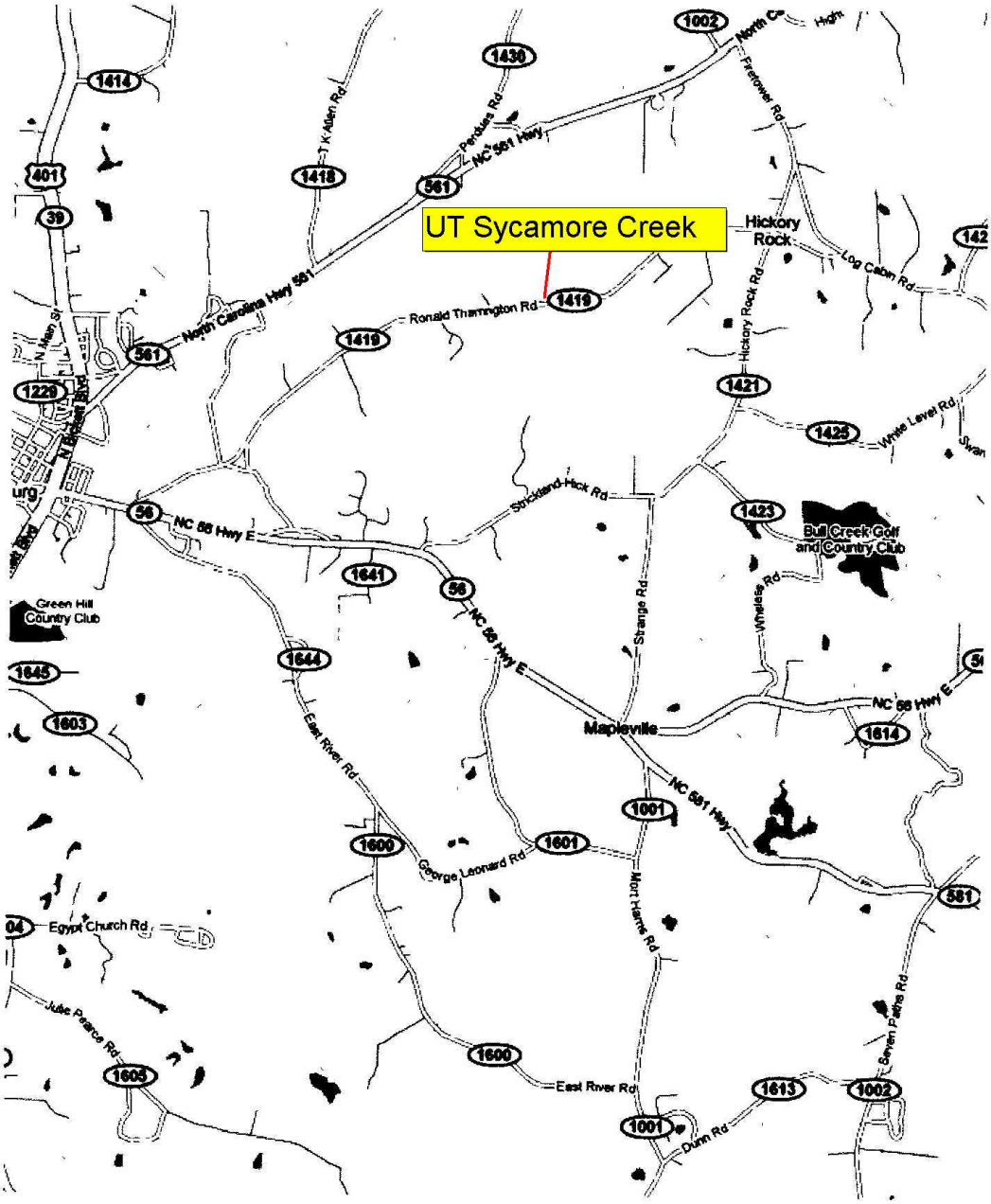
The planted species in the stream enhancement area along the UT to Sycamore Creek are surviving and the tributary is stabilized.

2.4 Conclusions

There were approximately 465 linear feet of stream enhancement planted on site. There were no plots established on the site. By visual observation the UT to Sycamore Creek Site shows that the planted species are surviving and tributary is stable at this time.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes discontinue vegetation and stream stability monitoring at the UT to Sycamore Creek Mitigation Site.



Map data ©2009 Tele Atlas - Terms of Use

http://mapper.acme.com/

8/24/2009

Figure 1. Site Location Map

APPENDIX A

SITE PHOTOS

UT to Sycamore Creek

Photo Point #1 (Overview of Planted Area)

Photo Point #1 (Overview of Planted Area)

Photo Point #2 (Looking Upstream at UT)

Photo Point #2 (Looking Downstream at UT)

June 2011